

ABINGTON TOWNSHIP



JUNE 21, 2021
7:30 PM



Abington Township
CLIMATE ACTION PLAN

CLIMATE ACTION PLAN

Public Meeting 3

Draft Plan Review



AGENDA

- Recap of Public Meetings #1 and #2
- Review of current feedback through the:
 - Community polling input on proposed climate actions
 - Public survey
 - Public Climate Issues Map
- Sections of the Plan
- Community discussion of draft Plan with questions & answers
- Next steps, submitting comments, and how to stay engaged





CAP SCHEDULE AND APPROACH

- Develop targets, strategies and goals
(April 23-May 15, 2021)
- Public Meeting 2 on targets, strategies and goals
(May 15-May 30, 2021)
- Public Meeting 3 to gather feedback on draft CAP
(May 31-July 31, 2021)
- Finalize and adopt CAP by Abington Township Board of Commissioners (August 1-September 30, 2021)

- **RECAP OF PUBLIC MEETINGS 1 AND 2**
- REVIEW OF CURRENT FEEDBACK
- SECTIONS OF THE PLAN
- COMMUNITY DISCUSSION
- NEXT STEPS





CAP SCHEDULE AND APPROACH

Abington Township Climate Action Plan

Road to Carbon Neutrality - Cleaning It Down Throughout Our Town

2020 Sep Nov 2021 Mar May Jul Sep 2021

Complete
Community
GHG Inventory Sep 15 - Dec 15

Co-develop community engagement strategy and
Abington Climate Action Plan (CAP) Collaborative Jan 9 - Jul 31

Complete a climate vulnerability assessment Feb 2 - Mar 15

Forecast business-as-usual emissions
and set emissions reduction targets Feb 1 - Apr 25

Develop and post public survey and hold
1st Public Workshop on Earth Day Mar 1 - May 15

Develop and model mitigation and
adaptation measures Mar 15 - May 15

Develop implementation and
monitoring plan Mar 26 - May 15

Hold 2nd Public Workshop May 15 - May 30

Finalize draft CAP, post for public comment,
and hold 3rd Public Workshop May 31 - Jul 31

Finalize and adopt CAP by Abington Township Board of Commissioners Aug 1 - Sep 30

We are here!



Abington Township
CLIMATE ACTION PLAN

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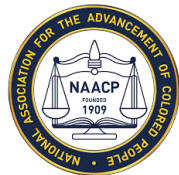
ABINGTON TOWNSHIP CLIMATE ACTION PLAN

CLIMATE ACTION PLAN COLLABORATIVE PARTNERS

GENERAL PUBLIC



TECHNICAL ADVISORS



MANOR
COLLEGE
YOU BELONG HERE



PennState
Abington



Abington
Jefferson Health



Redeemer
Sisters of the Redeemer



The CALMSociety.org
"Our Future Leaders Start At Home"



WILLOW GROVE PARK
A PREIT* PROPERTY



ABINGTON TOWNSHIP
POLICE DEPARTMENT

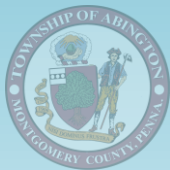


WILLOW GROVE
COMMUNITY DEVELOPMENT CORPORATION
PROVIDING AFFORDABLE RENTAL HOUSING



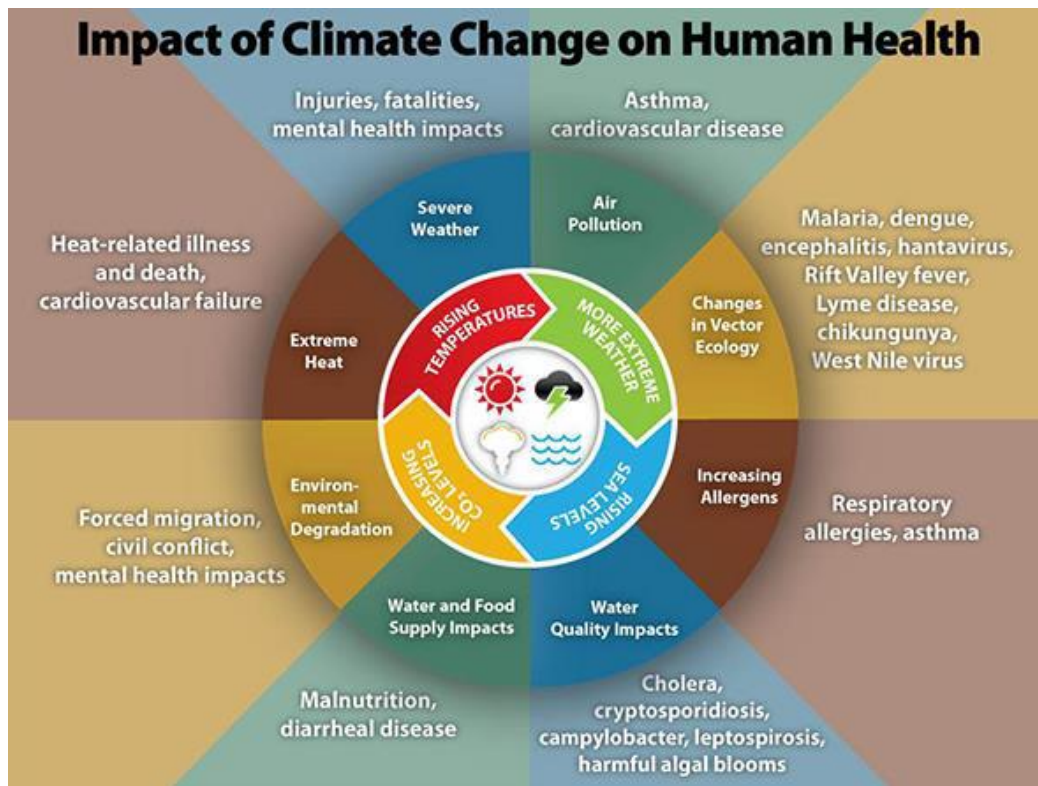
state senator
ART HAYWOOD
PARTICIPATION IS POWER
Serving the 4th Senatorial District





RECAP: MEETING 1

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Source: [U.S. Centers for Disease Control](https://www.cdc.gov/climateandenvironment/)



RECAP: MEETING 1 CLIMATE INITIATIVES & ACHIEVEMENTS

LED Traffic Signal Retrofit

Abington Township
Pennsylvania



retrofit at a glance

- 2,500 LED Traffic Signal Lamp Retrofits
- Investment of \$120,000 Over a 3-Year Period
- \$50 Per Lamp
- 90% Reduction in Energy Costs
- Three Year Project Payback




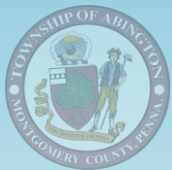
Abington Township is a Certified 3 STAR Community for Sustainability Leadership



For creating a healthy environment, a strong economy, and a vibrant community for now and all future generations
June 27, 2016



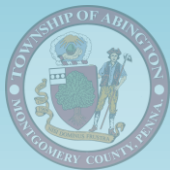
 LEED for Cities and Communities: Existing				Project Name			
Project Overview				Project ID			
Y T N				Y T N			
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RECAP: MEETING 1

Local CAP Template

[Jurisdiction] Climate Action Plan



Local Actions and Policies to Reduce [Jurisdiction]'s
Greenhouse Gas Emissions

Approved by [Local Authority]
[Date Approved]
[Reference to Public Record]
[Reference to Further Information]
Produced by [Name of Lead Department or Task Force]
Through partnership with ICLEI - Local Government for Sustainability (ICLEI)



Local Climate Action Program (LCAP)

- ICLEI Local Governments for Sustainability – USA hired as contractor
- College student matched with local government
- ICLEI trains student on ClearPath inventory tool (fall semester) and climate action planning (spring semester)
- Final result: 41 GHG inventories & 40 local climate action plans

dep.pa.gov/LocalClimateActionProgram



Source: Pennsylvania Department of Environmental Protection

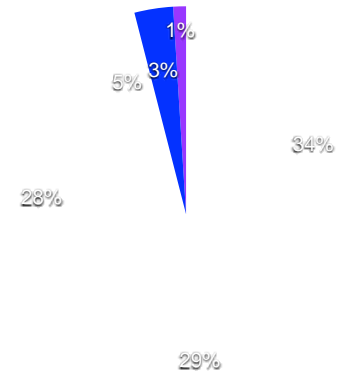


RECAP MEETINGS 1 & 2: ABINGTON COMMUNITY-WIDE GHG INVENTORY

The inventory serves as the baseline for our community goals. The inventory will be refined and updated over time to measure progress.

91%

Emissions Sector	MTCO2 Eq.	Percent
Residential	180,519	34%
Industrial and Commercial	150,509	29%
Transportation and Mobile Sources	147,367	28%
Solid Waste	23,957	5%
Water and Wastewater	18,1223	3%
Process and Fugitive Emissions	4,657	1%
Agriculture, Forestry, Other Land Use	139	0.03%
Total 2018 Abington Community GHGs	525,271	100%



Source: Abington Township Community GHG Inventory through the PA DEP 2020-2021 [Local Climate Action Plan Program](#) with [ICLEI technical assistance and training](#)



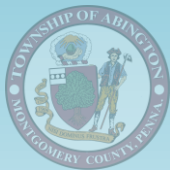
RECAP MEETING 1 & 2: EXAMPLE RECOMMENDATIONS

Lead by Example – Local Government

- Establish energy management plan for public facilities
- Track energy and water usage via Energy Star Portfolio Manager
- Maximize onsite renewable energy generation and purchase RECs
- Consider Energy Star and LEED certification, as well as net zero and Passive House standards for new construction and major renovation of public facilities
- Implement climate resilience in public facilities, such as least impact backup power generation and climate resilient vegetation
- Require energy efficient and alternative fuel use in fleet vehicles
- Enroll facility managers in energy efficiency training
- Learn from best practices within and outside of PA

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RECAP MEETING 2: POLLING RESULTS

Rank the priority of these strategies related to Buildings:



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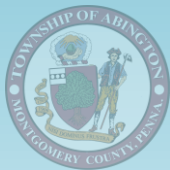
RECAP MEETING 2: POLLING RESULTS

Rank the priority of these strategies related to Transportation and Mobility:



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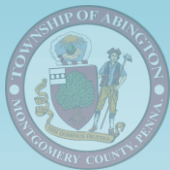
RECAP MEETING 2: POLLING RESULTS

Rank the priority of these strategies related to Local Food and Waste:



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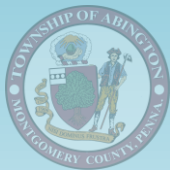
RECAP MEETING 2: POLLING RESULTS

Rank the priority of these strategies related to Climate Justice and Community Engagement:



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RECAP MEETING 2: POLLING RESULTS

Rank the priority of these strategies related to Green Space and Adaption:

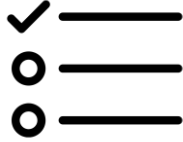


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OTHER WAYS TO PARTICIPATE



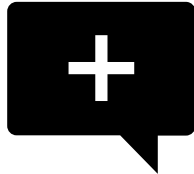
Online survey of goals, principles and proposed strategies

- Fill out online survey to rank your priorities and offer suggestions
- Visit AbingtonPA.gov/ClimateSurvey through July 1, 2021



Community mapping of climate vulnerabilities and impacts

- Identify locations of climate hazards and impacts using online map
- Visit AbingtonPA.gov/ClimateMap



Provide Feedback on Plan Elements

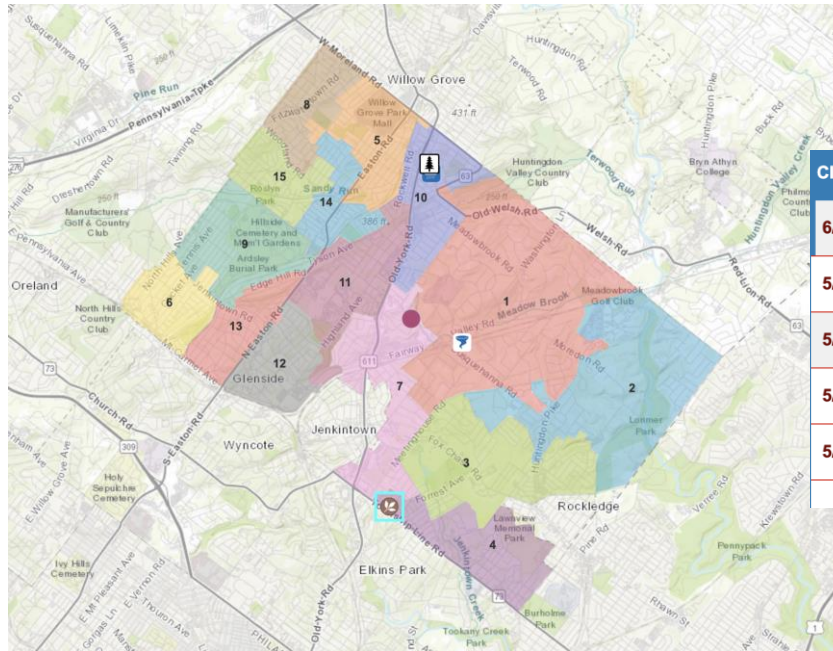
- Review plan components and provide comments and feedback
- Visit AbingtonPA.gov/ClimatePlanFeedback



CLIMATE ISSUES REPORTER MAP

- www.abingtonpa.gov/climatemap

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Climate Issues Reporter

6/9/2021, 8:16 PM , Invasive Vines

5/20/2021, 4:13 PM , Other Issues (leave detailed description in comments)

5/18/2021, 3:40 PM , Trees, Dying, Hazardous or Dead

5/18/2021, 1:41 PM , Damage, Wind or Storm

5/12/2021, 5:34 PM , Flooding, Roadway



Abington Township
CLIMATE ACTION PLAN



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VISION AND PRINCIPLES

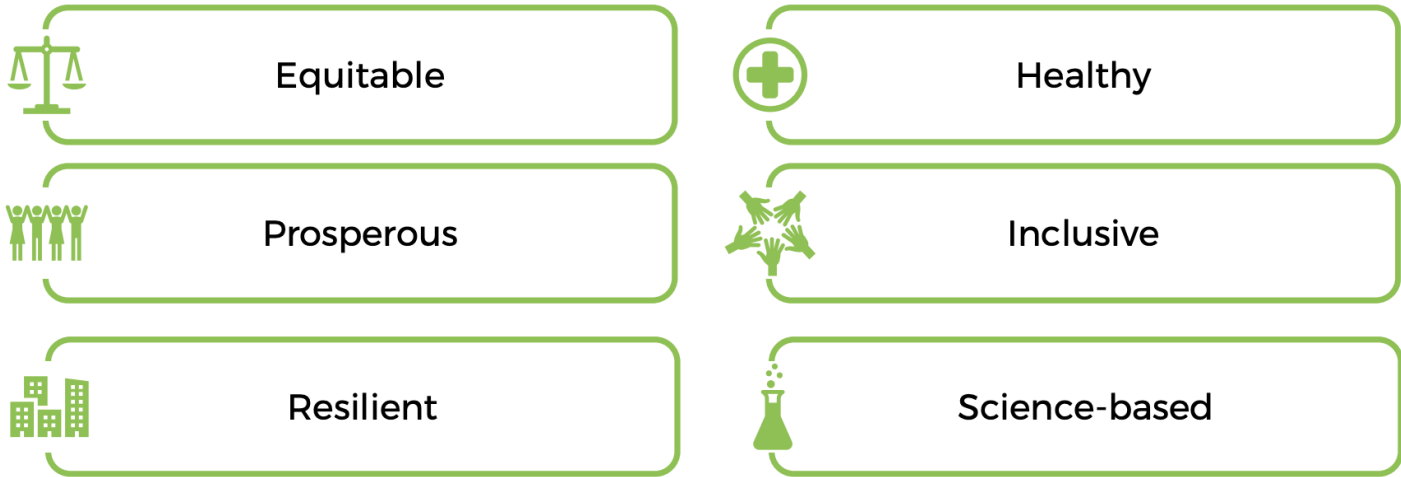


Image Source: City of Bethlehem



ABINGTON'S DRAFT CAP

CAP DRAFT Contents

- Development – *Complete*
- Principles – *Complete*
- Climate impacts - *Complete*
- Township and Community GHG inventory - *Complete*
- Plan integration and Proposed Climate Collaborative Resolution- *In Progress*
- Goals and actions – *In progress*
- Buildings and energy – *In progress*
- Transportation and land use – *In progress*
- Waste and recycling – *In progress*
- Local food and green space – *In progress*
- Adaption Strategies – *In progress*

Public comment review period expected to begin **June 21, 2021**
Will be available for download at abingtonpa.gov/climateplan





CAP EMISSIONS REDUCTIONS AND ADAPTATION CHAPTERS



BUILDINGS & ENERGY

Policies and strategies to reduce residential, commercial, municipal, and industrial sector GHG emissions, also interfacing with key utility efforts



TRANSPORTATION & LAND USE

Policies and strategies to reduce transportation related GHG emissions



WASTE & RECYCLING

Policies and strategies to reduce waste generation sector GHG emissions and promote recycling



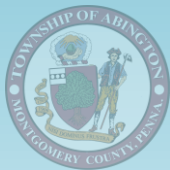
LOCAL FOOD & GREEN SPACE

Policies and strategies to increase access to and equitability of local food and green space, and reduce associated GHG emissions



CLIMATE ADAPTATION

Policies and strategies to address climate change risks through public health, energy, water supply, flooding, natural systems and emergency preparedness measures



HOW THE CAP IS ORGANIZED

- RECAP OF PUBLIC MEETINGS 1 AND 2
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BUILDINGS & ENERGY

- Township Facilities, Operations, Policies and Initiatives
- Buildings and Energy Engagement Opportunities for residents, schools, institutions, business, civic, and energy partners



TRANSPORTATION & LAND USE

- Township Fleets, Operations, Policies and Initiatives
- Community Engagement Opportunities for residents, schools, institutions, businesses, civic, and transportation partnerships



WASTE & RECYCLING

- Township Waste Reduction Operations, Policies and Initiatives
- Community Engagement Opportunities for residents, schools, institutions, civic, businesses and waste reduction partnerships



LOCAL FOOD & GREEN SPACE

- Township Policies, Operations and Stewardship Initiatives
- Community Engagement Opportunities for residents, schools, institutions, civic, businesses for food and sustainable partners



CLIMATE ADAPTATION

Policies and strategies to address climate change risks through public health, energy, water supply, flooding, natural systems and emergency preparedness measures





CHAPTERS IN THE CAP

★TOWNSHIP & COMMUNITY OBJECTIVES FOR EACH AREA

★TOWNSHIP & COMMUNITY STRATEGIES FOR EACH AREA



BUILDINGS & ENERGY

- Township Facilities, Operations, Policies and other actions
- Buildings and Energy Engagement Opportunities for residents, schools, institutions, business, civic, and energy partners



TRANSPORTATION & LAND USE

- Township Fleets, Operations, Policies and other actions
- Community Engagement Opportunities for residents, schools, institutions, businesses, civic, and transportation partnerships



WASTE & RECYCLING

- Township Waste Reduction Actions and Policies
- Community Engagement Opportunities for residents, schools, institutions, civic, businesses and waste reduction partnerships



LOCAL FOOD & GREEN SPACE

- Township Policies, Operations and Stewardship actions
- Residents, schools, institutions, civic, businesses food and sustainable partnerships community engagement actions



CLIMATE ADAPTATION




Policies and strategies to address climate change & protect at risk citizens through public health, energy, water supply, flooding, heat waves, natural systems and emergency preparedness measures

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SUPPLEMENTAL DESCRIPTIONS

Symbol	GHG Reduction
	Small Impact Range
	Medium Impact Range
	Large Impact Range

Each objective's strategies, shows 1 to 3 of the symbol above to indicate the GHG reduction impact for that action.

Symbol	Co-Benefit
	High potential to support jobs and prosperity
	High potential to advance equity
	High potential to improve local environmental quality
	High potential to improve health

Each strategy lists icon(s) shown above to represent the co-benefits of improving public health, equity and justice, jobs and prosperity, and environmental quality.

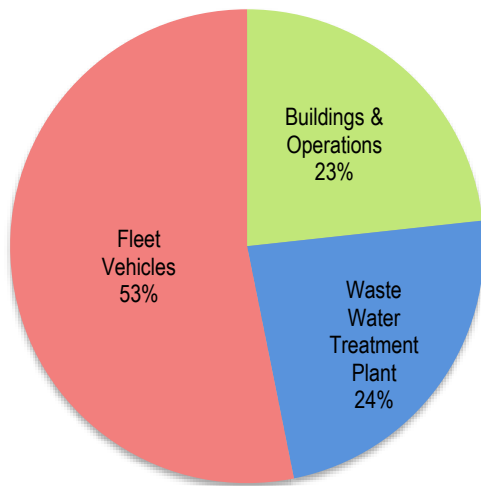
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BUILDINGS AND ENERGY

★ TOWNSHIP 2019 GHG INVENTORY

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=.9% of Community GHGs

Summary of Abington Township 2019 GHGs (MTCO ₂ e) by Sector		
Sector	MTCO ₂ e	% Total
Buildings & Operations	1066.26	23%
Waste Water Treatment Plant	1078.95	24%
Fleet Vehicles	2435.68	53%
Total	4580.89	100.00%

Summary of Abington Township 2019 Energy Use (MMBtu) by Sector		
Sector	Total MMBtu	% Total
Buildings & Operations	13938.94	24%
Waste Water Treatment Plant	11998.12	20%
Fleet Vehicles	33529.00	56%
Total	59466.06	100%



BUILDINGS & ENERGY TOWNSHIP FACILITIES & OPERATIONS

★ OBJECTIVES

★ STRATEGIES



ENERGY MANAGEMENT

- Benchmark building operations; Audit energy use and billing
- Conserve to reduce costs and implement advanced technologies
- Focus on utility bill demand metrics to reduce cost
- Consider energy broker for utility contracts
- Implement retrofit & audit recommendations, complete LEDs
- Explore energy performance contracts (ESCOs) or [GESA funds](#)
- Consider white or green roofs as roofing opportunities emerge



INCREASE ENERGY EFFICIENCY

- Use green construction/renovations standards for TWP projects
- Create net zero or low carbon targets within a future timeframe
- Collaborate with other jurisdictions to create opportunities
- Support legislation, such as Community Solar
- Expedite permits with [SolSmart.org](#) certification and [SolarApp+](#)
- Pursue renewable energy procurement, e.g. PPAs



SUSTAINABLE DESIGN

- Electrify heating, cooling, hot water, and fleets
- Create on-site and off-site solar and cease natural gas projects
- Policies and strategies to address climate change risks through public health, energy, water supply, flooding, natural systems and emergency preparedness measures



TRANSITION TO RENEWABLES



CLIMATE ADAPTATION

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COMMUNITY BUILDINGS & ENERGY

★ OBJECTIVES

★ STRATEGIES



EDUCATION & OUTREACH

- Promote efficiency, benchmarking, [C-PACE](#) efficiency and renewable funding opportunities, energy and billing audits
- ECMs to reduce costs and implement advanced technologies
- Hold energy workshops for residents and businesses



INCREASE ENERGY EFFICIENCY

- Save through energy audits and implement recommendations
- Establish benchmarking for commercial properties
- Offer energy management
- Adopt [model codes and ordinances](#)



SUSTAINABLE DESIGN

- Green building specs for Township construction/renovations
- Develop incentives for sustainable design
- Promote green building codes
- Create low embodied carbon policy for buildings and rehabs



TRANSITION TO RENEWABLES

- Electrify heating, cooling, hot water, and landscaping
- Promote funding opportunities, e.g. [DSIRE.org](#)
- Pursue renewable energy procurement, e.g. power agreements
- Create on-site and off-site solar and cease natural gas projects



CLIMATE ADAPTATION

Policies and strategies to address climate change risks through public health, energy, water supply, flooding, natural systems and emergency preparedness measures

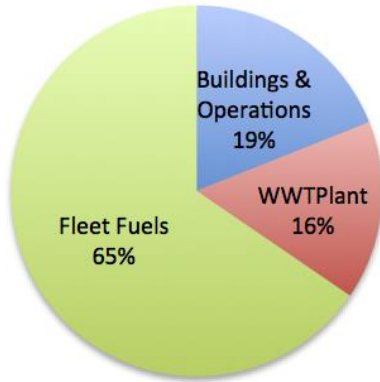
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TOWNSHIP TRANSPORTATION COSTS & GHGs

Total Energy Cost by Sector Abington Township, 2019



2019 Township Municipal GHG Inventory

Summary of Abington Township 2019 GHGs (MTCO ₂ e) by Sector		
Sector	MTCO ₂ e	% Total
Buildings & Operations	1066.26	23%
Waste Water Treatment Plant	1078.95	24%
Fleet Vehicles Fuels	2435.68	53%
Total	4580.89	100.00%

Fuel Type	Buildings	WWTP	Transportation	Total
Electricity	\$221,726.43	\$205,945.43	\$0.00	\$427,671.86
Natural Gas (incl. CNG)	\$33,719.91	\$4,375.76	\$0.00	\$38,095.67
Gasoline	\$0.00	\$0.00	\$336,000.00	\$336,000.00
Diesel (Transport)	\$0.00	\$0.00	\$546,000.00	\$546,000.00
Total Costs	\$255,446.34	\$210,321.19	\$882,000.00	\$1,347,767.53
% of Total Costs	19%	16%	65%	100%

***Please note:**
Costs are
being verified

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TOWNSHIP TRANSPORTATION & LAND USE

★ OBJECTIVES ★ STRATEGIES



OPTIMIZE FLEET & OPERATIONS

- Conduct fleet analysis to optimize EV replacement strategy
- Use [DVRPC's Municipal Electric Vehicle Resource Kit](#)
- Use [DVRPC's EV Map & Workplace Charging Demand Toolkit](#).



SUSTAINABLE LAND USE POLICIES

- Use community design charrette process for land development
- Create a sustainable design checklist for all development
- Ensure sustainable design is embedded into land use reviews
- Maximize green infrastructure for storm water management



REDUCE TRAVEL EMISSIONS

- Install EV charging stations and low/no travel alternatives
- Employee ride-share and telecommuting incentive programs
- Create metrics to reduce Township contractor travel
- Multi-municipal traffic control to reduce emissions



TRANSIT OPTIONS

- Create bike to work opportunities
- Incentivize employee use of electric charging stations
- Explore Community Block Development Funds for



CLIMATE ADAPTATION

Policies and strategies to address climate change risks through public health, energy, water supply, flooding, natural systems and emergency preparedness measures

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COMMUNITY TRANSPORTATION & LAND USE

★ OBJECTIVES ★ STRATEGIES



EDUCATION & OUTREACH

- Promote electric vehicle opportunities and cost savings
- Promote bicycling opportunities
- Incentivize employers to promote car sharing, transit, and biking



SUSTAINABLE LAND USE POLICIES

- Promote community gardens and open space opportunities
- [Explore Section 108 Community Development Block Grants](#)
- Develop engagement goals for residents, institutions, and businesses, such as the Ardsley Wildlife and Briar Bush NC



SUSTAINABLE DESIGN

- Prioritize [Montco's Sustainable Green Parking Lots Guide](#)
- Rain Barrel the Town and Shade Tree Commission programs
- Ensure development incorporate charging station conduits for future electric vehicles



TRANSIT OPTIONS

- Create bike to work opportunities
- Support transit oriented development
- Expand transit and car sharing to marginalized communities



CLIMATE ADAPTATION

Policies and strategies to address climate change risks through public health, energy, water supply, flooding, natural systems and emergency preparedness measures



TOWNSHIP AND COMMUNITY WASTE & RECYCLING

★ OBJECTIVES

★ STRATEGIES



WASTE DIVERSION

- Conduct a waste stream analysis of each Township building to identify opportunities to increase waste diversion
- Create an ordinance to reduce single use plastics



PARTNERSHIPS COLLABORATIONS

- Increase Township waste diversion and other best practices through partnerships and collaborations



WASTE DIVERSION

- Establish a Construction and Demolition Waste Diversion program for major Township capital projects



ZERO WASTE PATHWAYS

- Review the [TRUE \(Total Resource Use and Efficiency\) zero waste program rating system guide](#) to explore pathways to achieve zero waste



CLIMATE ADAPTATION

Policies and strategies to address climate change risks through public health, energy, water supply, flooding, natural systems and emergency preparedness measures

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TOWNSHIP AND COMMUNITY FOOD AND GREEN SPACE

*This slide was
not presented

★ OBJECTIVES

★ STRATEGIES



OPEN SPACE MANAGEMENT

- Establish a sustainable management landscape plan
- Convert lawn equipment and vehicles to electric sources
- Encourage integrated pest management, soil conservation, nutrient management planning



PRESERVE MORE OPEN SPACE

- Reforest cleared areas or where woodlands area declining
- Conserve woodlands through model ordinances to conserve existing woodlands, requires tree replacement / reforestation for lost woodlands, and protects trees to remain on developed sites.



SHOP LOCAL

LOCAL FOOD PRODUCTION

- Support and expand local Community Supported Agriculture
- Encourage buy local campaigns.



LOW EMISSIONS FOODS

- Educate the community about low emissions foods
- Hold educational events such as “Meatless Mondays”
- Promote efforts by local health organizations to increase sustainable diets.



CLIMATE ADAPTATION

Policies and strategies to address climate change risks through public health, energy, water supply, flooding, natural systems and emergency preparedness measures



VULNERABILITIES

Abington's vulnerability assessment includes:

Increased mortality and medical costs from heat-related health impacts such as heat stroke, dehydration, cardiovascular, respiratory, and cerebrovascular disease

- **Indirect health impacts** such as less time being active outside due to heat, which contributes to obesity problems
- **Increased costs for road maintenance**, traffic disruptions, and lower quality roadway surfaces as paving materials expand and buckle under extreme heat
- Adverse water quality as extreme heat increases the potential for algal blooms and other **waterborne pathogens in the water system**
- Higher electricity prices and **risk of brownouts/backouts** as extreme temperatures stress electricity supply and production
- Increased costs and **dangerous conditions created by the flooding of roads**, buildings, and other infrastructure
- **Mold and increasing repair costs** for homeowners due to flood damage

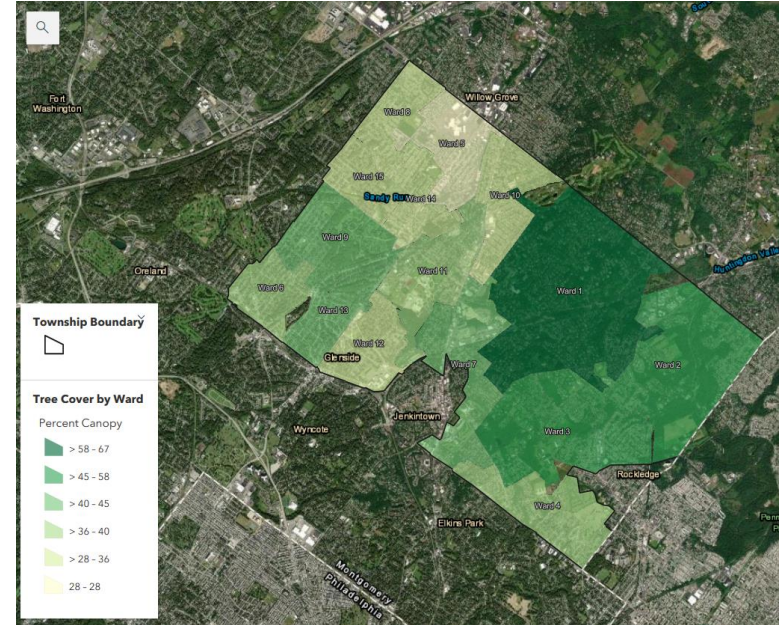
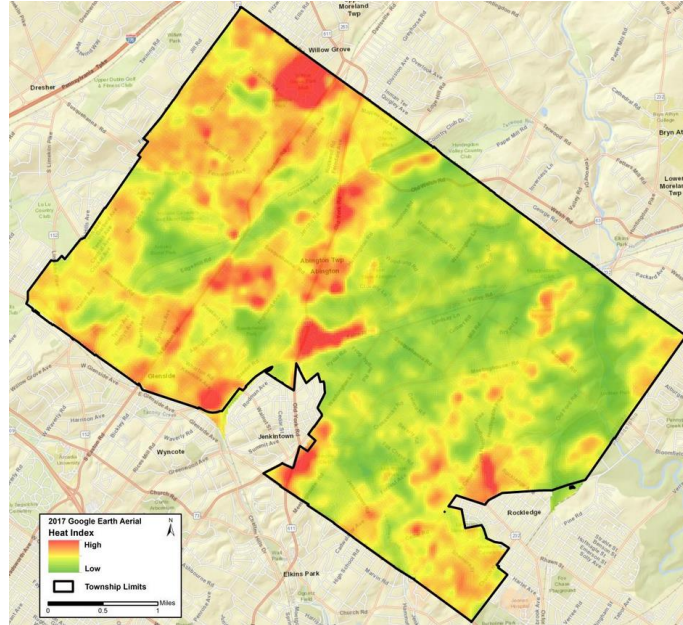


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DISPROPORTIONATE IMPACTS FOR VULNERABLE COMMUNITIES

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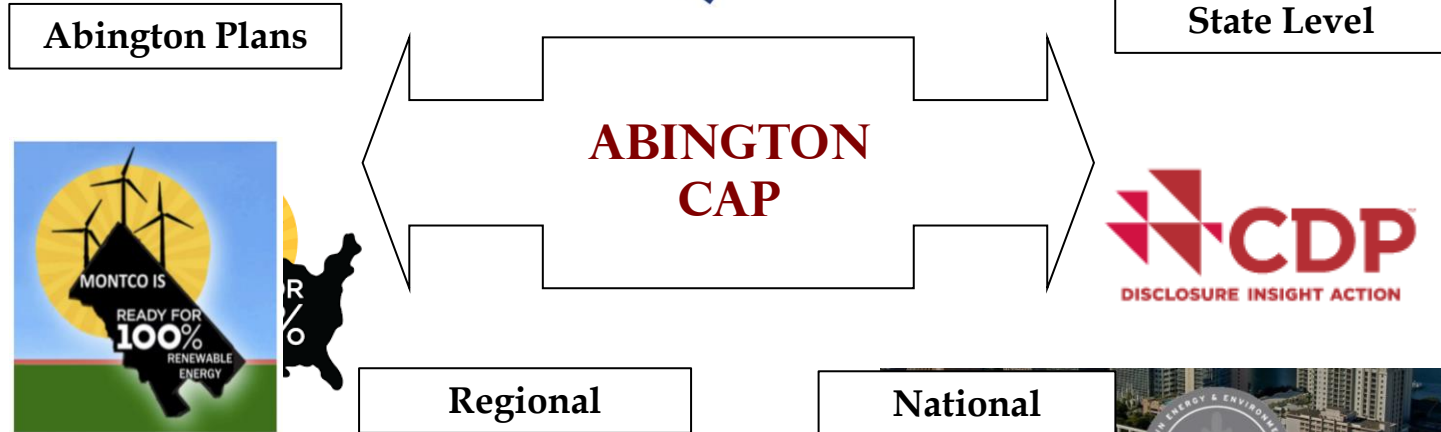
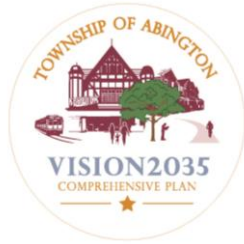


Source: [Abington Township's Master Tree Plan Story Map](#)





INTEGRATION WITH OTHER CLIMATE ACTIONS



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Abington Township
Board of
Commissioners
President
John Spiegelman

2019 ABINGTON TOWNSHIP READY FOR 100 CLEAN ENERGY RESOLUTION: A VISION FOR A 100% CLEAN ENERGY FUTURE:

- ❖ Striving to transition to 100% clean renewable electricity, community-wide by 2035
- ❖ Striving to transition to 100% clean renewable energy when replacing hot water & space conditioning, vehicles & transportation equipment community-wide by 2050
- ❖ Striving to transition Township vehicle fleets to 100% electric vehicles by 2030
- ❖ At the request of the Board of Commissioners and Township Manager, the EAC will draft an energy transition plan for achieving these goals

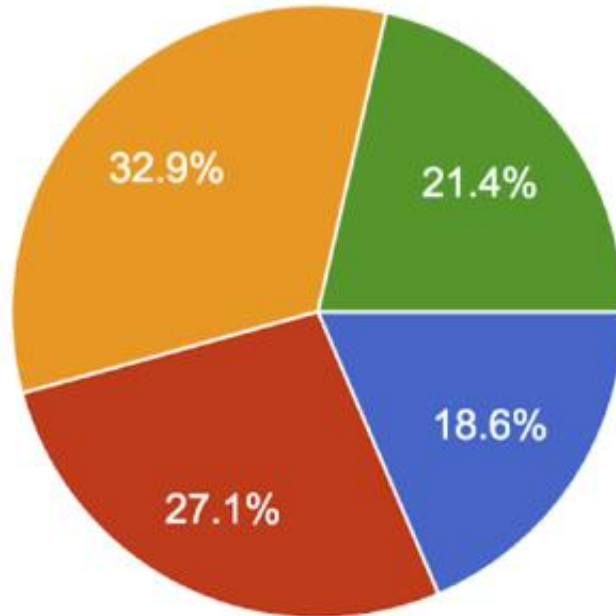
Now is the time to engage our community in building the road to carbon neutrality by “Cleaning it Down Throughout The Town.”





PUBLIC SURVEY RESPONSES

What approach should Abington take in setting goals in the Climate Action Plan?
(70 responses)



- 33% Set the ambition of goals based on the latest climate science
- 27% Set goals with a high degree of confidence for achievement
- 21% Set the ambition of goals based on current economic or technical feasibility
- 19% Set aspirational goals with greater ambition, even if the ability to achieve them is less certain

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PROPOSED GHG REDUCTION TARGETS



- **45% reduction from 2010 GHG emissions by 2030**

And



- **Net zero by 2050**

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PROPOSED GHG REDUCTIONS

Inventory Year	Total MTCO ₂ e	Percent Change Since 2005 Baseline	Percent Change Since 2010 Inventory	CAP MTCO ₂ e Reduction Target from 2018 Inventory	CAP MTCO ₂ e Reduction Percent Targets from 2018 Inventory
2005	657,944	Not Applicable			
2010	615,224	-6.5%	Not Applicable		
2015	522,037	-20.7%	-15.1%		
*2018	525,271	-20.2%	-14.6%		
2030	338,373	-48.8%	-45% 2030 TARGET	-186,898	-35.6%
2050	0	-100%	-100% 2050 TARGET	-525,271	-100%

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THE SCALE OF THE CLIMATE CHALLENGE ~ SCIENCE BASED TARGETS



MCCC decided to use science based targets for the reduction goals in the LCAP. MCCC hopes to reduce their emissions by 61.3 percent by 2030 and 100 percent by 2050. This target is ambitious, but it is used to hopefully encourage communities to make big changes and recognize that they ought to advocate for changes at the larger scale in order to meet these goals.

Base Year Emissions	Base Year Emissions (Per-capita) (MT CO2e)	2030 Emissions	2030 Emissions (Per-Capita)	Change between base year and 2030 emissions
9,537,816	11.64	3,693,430.96	4.18	-5,844,385.04

[Montco CAP Background](#)

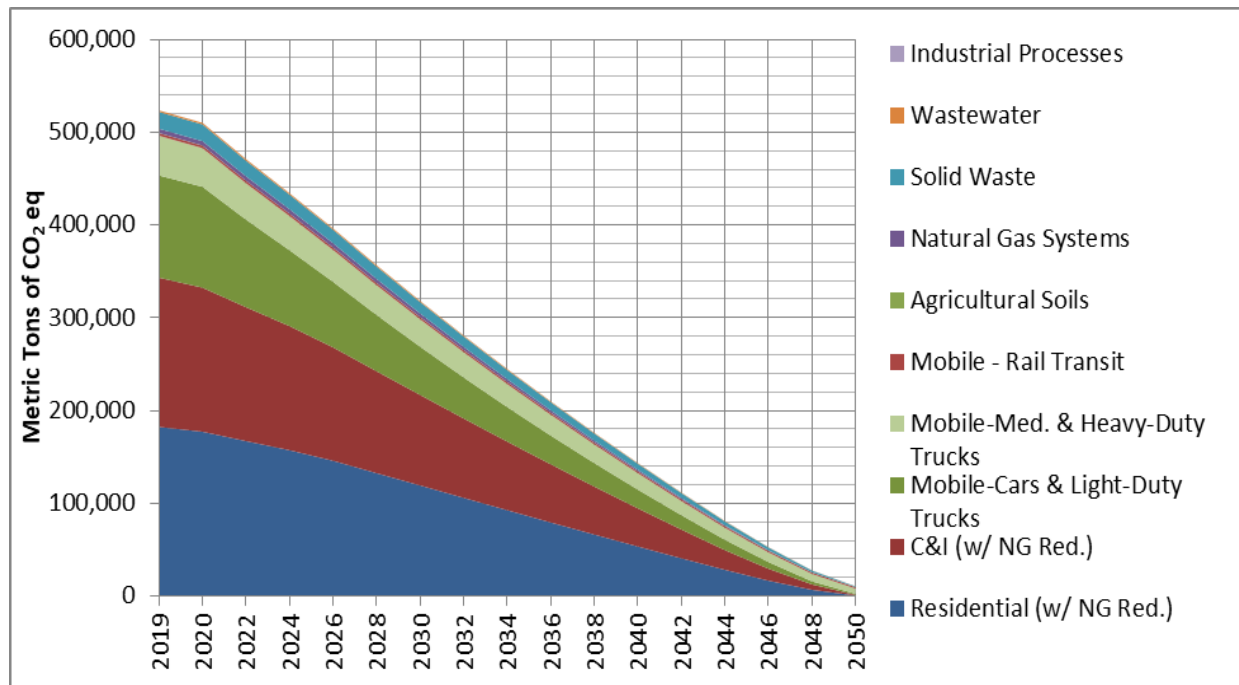


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HOW TO REACH THESE TARGETS?

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* A **100%** goal is fully achieved when the amount of **energy** generated from **renewable energy** sources equals or exceeds **100%** of the annual **energy** consumed. Other terms are used for this as well, including net-zero energy and decarbonization.





HOW TO REACH THESE TARGETS?

1/ EFFICIENCY

Weatherization
Insulation
Advanced lighting
Energy management
systems
Benchmarking and audits

2/ ELECTRIFICATION

Efficient Heating and
Cooling with Heat Pumps
Energy Star electric
appliances and water
heaters
Plug-in hybrid and electric
vehicles

3/ RENEWABLE ENERGY

Purchase renewables through
PA Powerswitch or Power
Purchase Agreements
On site and off site renewable
generation

Combined, these actions can get us to zero emissions, based on our current greenhouse gas emissions profile. We modeled what this would look like in our community if we start now.



HOW TO REACH THESE TARGETS?

To meet the emissions, reductions needed and lower pollution, at what rate do we need to:

- ⌚ **Adopt efficiency measures?**
- ⌚ **Replace worn out heaters and furnaces with heat pumps?**
- ⌚ **Replace older vehicles with hybrids and electric cars?**
- ⌚ **Buy or install renewable electricity?"**



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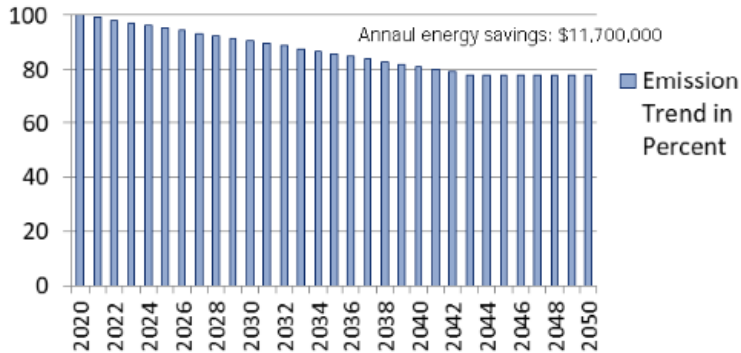


HERE IS WHAT WE LEARNED:

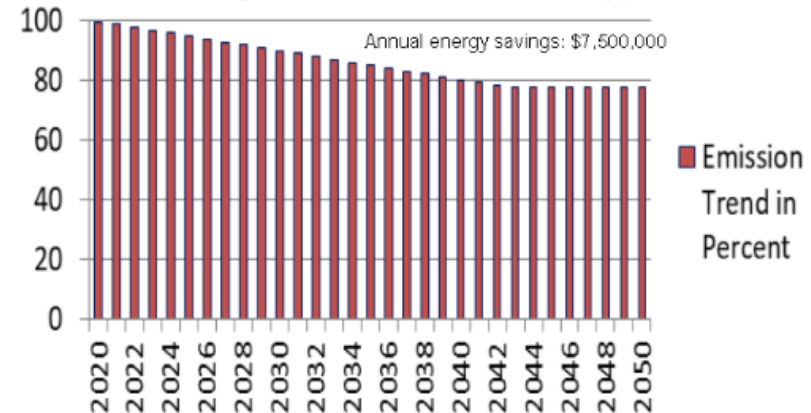
Up to 24% reduction in emissions can be achieved through energy efficiency alone! (By weatherizing our buildings, installing LED lights, and purchasing Energy Star appliances from now on.)

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**Residential Bldg. Weatherization
and Energy Star**



C&I Bldg. Weatherization and Energy Star

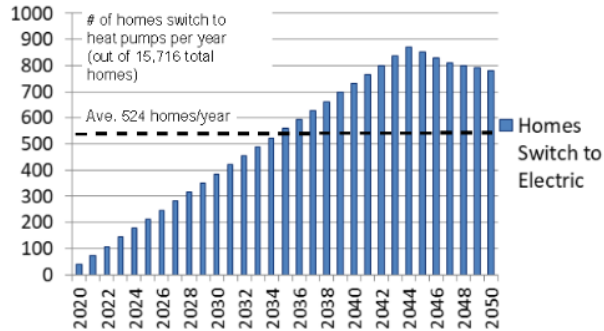




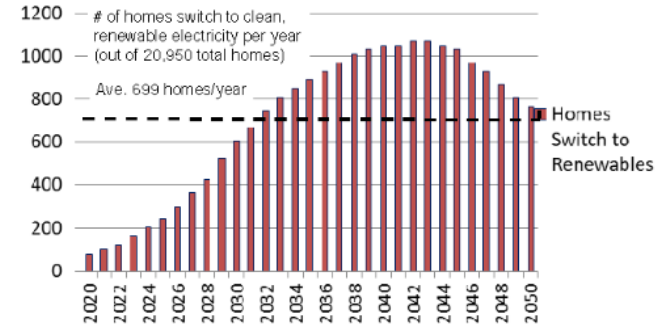
HERE IS WHAT WE LEARNED:

Then over time, our homes and buildings would gradually electrify their heating systems and appliances and obtain their electricity from renewable sources:

Homes Switch to Electric



Homes Switch to Renewables



Heat pumps are 3 times more efficient than oil or natural gas at heating buildings AND will provide cooling in the summer.



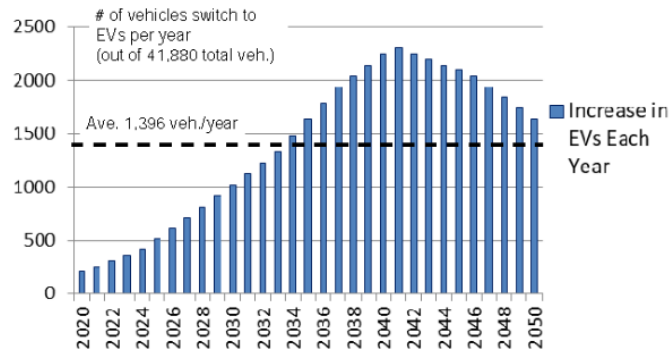
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HERE IS WHAT WE LEARNED:

At the same time, electric vehicles (EVs) would replace gasoline and diesel vehicles as they wear out:

Increase in EVs Each Year



EVs get the equivalent of 100 miles per gallon. Current vehicles get an average of 25 MPG. We can also support community wide reductions in vehicle related pollution emissions by 2050 by also improving mass transit, telecommuting, and more integrated land use planning.

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HOW DO WE REACH OUR GOAL?

We need to encourage voluntary action over the next 2 decades.

In the best case scenario we modeled, each year in Abington:



699*

HOUSING UNITS

would undergo weatherization improvements, many with funding and rebates from governmental agencies and PECO.

would be upgraded with more efficient Energy Star appliances and LED lighting as the existing appliances and light bulbs need to be replaced, receiving rebates for these purchases.



79*

**OIL & PROPANE
FURNACES**

would be replaced each year (when the furnace needs to be replaced) with high efficiency heat pumps saving money on operating costs.



445*

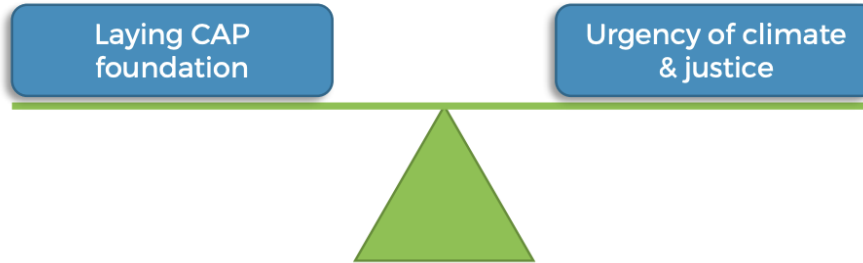
**GAS-FIRED
FURNACES**

would be replaced each year (when the furnace needs to be replaced) with high efficiency heat pumps saving money on operating costs. This process would start later (for instance in 2026), because of the economics of the conversion.

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IMPLEMENTATION



- Establish CAP governance framework and create institutional accountability
- Improve data to track progress
- Build public support for the CAP
- Implement actions to achieve community priorities
- Act quickly to promote equity and justice
- Achieve “no-regrets” quick wins
- Lay the groundwork for bigger policy changes
- Protect the most vulnerable populations and infrastructure

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DISCUSSION AND PROCESS FOR OFFERING COMMENTS

- Read the draft CAP and submit comments through July 31, 2021
- Visit the CAP webpage at www.abingtonpa.gov/climateplan
- Submit comments to ClimatePlan@AbingtonPA.gov
- Use the Climate Plan Feedback Tool to submit comments and suggestions
 - *Review plan components and provide comments and feedback*
 - Visit AbingtonPA.gov/ClimatePlanFeedback





HOW TO STAY ENGAGED

- Visit AbingtonPA.gov/ClimatePlan for updates
 1. Complete Abington's [Community CAP Survey](#) by July 1, 2021
 2. Submit Climate Issues to AbingtonPA.gov/ClimateMap
- Email ClimatePlan@AbingtonPA.gov your questions and ideas
- **View and provide feedback on plan beginning through July 31**
- Volunteer for the plan or organize community engagement
- Talk with your friends, family, neighbors, co-workers and community based organizations, sports, or faith based institutions to educate them about climate change and Abington's CAP
- Use our Clean Energy Transition Approaches for Community-wide Actions at tinyurl.com/ATCAPActions for residents, businesses and institutions

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